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PPLICATION NO). F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/705,662 11/10/2003		11/10/2003	Alfred D. Commins	SST/1367 6146	
498	7590	03/09/2006		EXAMINER	
JAMES R 405 14TH	CYPHER	?	HORTON, YVONNE MICHELE		
SUITE 160				ART UNIT	PAPER NUMBER
OAKLAND, CA 94612			3635		
				D. 200 14 14 15 00 100 100 100	

DATE MAILED: 03/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Comme		Application No.	Applicant(s) COMMINS ET AL.					
		10/705,662						
	Office Action Summary	Examiner	Art Unit					
		Yvonne M. Horton	3635					
Period fo	The MAILING DATE of this communication approximation of the second section approximation approxim	ppears on the cover sheet with the c	orrespondence address					
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. o period for reply is specified above, the maximum statutory perion to reply within the set or extended period for reply will, by statutely reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status								
1)[汉]	Responsive to communication(s) filed on 19	December 2005						
· —		is action is non-final.						
'=	,—		secution as to the merits is					
٠,٠	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
		polication						
	Claim(s) <u>1 and 23-30</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
· —	Claim(s) is/are allowed. Claim(s) <u>1 and 23-30</u> is/are rejected.							
	Claim(s) is/are objected to.							
·	Claim(s) are subject to restriction and/	or election requirement						
ا_ارن	are subject to restriction and/	or election requirement.						
Applicati	on Papers							
9)	The specification is objected to by the Examir	ner.						
10)[The drawing(s) filed on is/are: a)☐ ac	cepted or b) \square objected to by the \mathbb{R}	Examiner.					
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the corre	ction is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).					
11)	The oath or declaration is objected to by the E	Examiner. Note the attached Office	Action or form PTO-152.					
Priority u	ınder 35 U.S.C. § 119							
_	Acknowledgment is made of a claim for foreig ☐ All b)☐ Some * c)☐ None of:	n priority under 35 U.S.C. § 119(a)	-(d) or (f).					
	1. Certified copies of the priority documer	nts have been received.						
	2. Certified copies of the priority documer	• •						
	3. Copies of the certified copies of the pri	ority documents have been receive	ed in this National Stage					
	application from the International Burea	. , , ,						
* S	see the attached detailed Office action for a lis	st of the certified copies not receive	d.					
Attachmen	t(s)							
	e of References Cited (PTO-892)	4) Interview Summary						
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08	Paper No(s)/Mail Da	ite atent Application (PTO-152)					
	r No(s)/Mail Date	6) Other:						

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DETAILED ACTION

Response to Amendment

The declaration of Steven Pryor under 37 CFR 1.132 filed 12/19/05 is insufficient to overcome the rejection of claims 1 and 23-30 based upon the MUELLER, as modified by JOHNSON or CHARLES references as set forth in the last Office action because for the reasons set fourth below in the response to arguments section of the Action.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1 and 23-30 stand rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent #5,706,626 to MUELLER in view of either US Patent #4,037,381 to CHARLES or US Patent #5,390,466 to JOHNSON et al. In reference to claims 1 and 23, MUELLER discloses the use of a diaphragm (100) including structural panels (110a,b); a plurality of framing members (102a,b) (104,106) and (140) disposed in registry with a proximal side of the structural panel (110a,b); and a plurality of perimeter fasteners (124). MUELLER discloses the basic claimed diaphragm except for explicitly detailing the use of a means for reducing bending of the fasteners. Both brackets and washers are old and very well known in the art for their ability to reduce fasteners from bending as a result of forces being applied thereto. However, both CHARLES and JOHNSON et al. teach that it is known in the art to provide a structural panel with a means, either in the form of brackets (56) in CHARLES or washers (32,35) in JOHNSON et al., for reducing bending of fasteners. Hence, it would have been obvious

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tone having ordinary skill in the art at the time the invention was made to provide the structure of MUELLER with the means for reducing bending of fasteners of either CHARLES or JOHNSON et al. in order to ensure that the panel is structurally sound and capable of resisting forces imposed thereupon. Without additional bracket or washers, when a force is imposed on the structure the fasteners will tend to break or fracture and not be able to maintain its structural integrity. However, brackets and washers provide fasteners with the strength needed to withstand forces imposed thereon. Regarding claim 24, the fasteners are closely spaced. In reference to claim 27, the means for reducing bending is a perimeter edging member (102a,b) (104) (106) (140) disposed near an edge face of the structural panel (110a,b). Regarding claim 28, the perimeter edging member (102a,b) (104) (106) (140) has a first face member (120). In reference to claim 29, the first face (120) is disposed on the distal side of the structural panel (110a,b). Regarding claim 30, the means for reducing bending (102a,b) (104) (106) (140) is made from light gauge sheet metal.

Claims 25 and 26 stand rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent #5,706,626 to MUELLER. MUELLER discloses the basic claimed shear panel except for explicitly detail a fastener spacing of 2 inches and except for disclosing that his structural panels are wood. Regarding claim 25, MUELLER discloses a fastener spacing of 4 inches. Although MUELLER does not detail a spacing of 2 inches, it would have been obvious to one having ordinary skill in the art at the time the invention was made that the spacing is selected to depend upon the required rigidity of the connection and the material of the members forming the connection. For instance,

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an all metal panel used for installation in a building known for earthquake exposure might need the fasteners to be spaced closer; whereas if the very same panel were used in a building not known for earthquake exposure would do well with fasteners not so closely spaced. In reference to claim 26, again, it would have been obvious to one having ordinary skill in the art at the time the invention was made to select a known material suitable for the use intended as an obvious matter of design choice. A wood panel for use in a low stress imposed residential environment performs well whereas a metal panel performs well in building in environments having large stresses imposed thereon.

Response to Arguments

Applicant's arguments filed 12/19/05 have been fully considered but they are not persuasive.

Regarding the applicant's argument that there is motivation to combine either JOHNSON or CHARLES with MUELLER just to add an additional washer or bracket because steel walls perform differently than wood walls, the examiner agrees. However, there is nothing in the claim that would make this "means" for reducing bending in a steel wall as opposed to a wood wall. Simply, the claims has been examined in the broadest since, with the requirement being "a means that reduces bending of perimeter fasteners" in general. As noted above, and as clearly set fourth in both JOHNSON and CHARLES, washers and brackets are very old and well known for their use in the art for reducing the ability of a fastener – any fastener, to bend after having been exposed to an or any external force.

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Surely, the failure rate of a steel wall as opposed to a wood wall is different, as is the failure rate of a steel fastener as opposed to a plastic or wood fastener because failure is a result of forces imposed thereon. Not every material respond to different forces in the same manner. It is true that typical fasteners are known to be weak and this is why brackets and washers are used in an attempt to impede the weight imposed thereon. So, it is not only the washer or means of reducing bending that are factors, it is also the materials and the force imparted thereon. Thus, without any further structural details of the reducing means, the materials, or the force imparted thereon, the references as stated above, remain readable over the claims as currently cited.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yvonne M. Horton whose telephone number is (571) 272-6845. The examiner can normally be reached on 6:30 am - 3:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl D. Friedman can be reached on (571) 272-6842. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Yvonne M. Horton Art Unit 3635

03/06/06

Carl D: Friedman
Supervisory Patent Examiner
Group 3600

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